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## Search History

**DATE:** Saturday, November 29, 2003 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
		<u>result set</u>	
<u>L7</u>	16 and kit\$1	11	<u>L7</u>
<u>L6</u>	L5 and (termin\$2 or end\$1)	14	<u>L6</u>
<u>L5</u>	L4 and (methyl nucleotides or fluoro nucleotides or amino nucleotides or arabinose nucleotides)	14	<u>L5</u>
<u>L4</u>	l1 and (amplif\$7 or PCR)	1481	<u>L4</u>
<u>L3</u>	L2 and (termin\$2 or end\$1)	9	<u>L3</u>
<u>L2</u>	L1 and (O-methyl nucleotide\$1 or fluoro nucleotide\$1 or amino nucleotide\$1 or arabinose nucleotide\$1)	9	<u>L2</u>
<u>L1</u>	modif\$4 near5 primer\$1	2656	<u>L1</u>

END OF SEARCH HISTORY

**Search Results - Record(s) 1 through 10 of 11 returned.**

1. [6582923](#). 22 Mar 02; 24 Jun 03. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 435/6; 435/91.1 536/23.1 536/25.3. C12Q001/68 C12P019/34 C07H021/02 C07H021/04.

2. [6566059](#). 10 Sep 99; 20 May 03. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 435/6; 435/91.1 435/91.2 536/22.1 536/23.1 536/24.3 536/25.3. C12Q001/68 C12P019/34 C07H021/00 C07H021/02 C07H021/04.

3. [6503710](#). 27 May 99; 07 Jan 03. Mutation analysis using mass spectrometry. Gut; Ivo Glynne, et al. 435/6; 435/91.1 436/173 436/175 536/25.3 536/25.4. C07H021/04 C12Q001/68.

4. [6500650](#). 05 Sep 00; 31 Dec 02. Method for identifying polymorphisms. Stanton, Jr.; Vince P., et al. 435/91.1; 435/6 435/91.2 536/22.1 536/23.1 536/24.3 536/24.33 536/25.3 536/25.32. C12Q001/68 C12P019/34 C07H019/00 C07H021/00 C07H021/02.

5. [6475736](#). 25 Oct 00; 05 Nov 02. Methods for genetic analysis of DNA using biased amplification of polymorphic sites. Stanton, Jr.; Vincent P.. 435/6; 435/91.2 536/22.1 536/24.33. C12Q001/68 C12P019/34 C07H021/04 C07H019/00.

6. [6458945](#). 09 Nov 00; 01 Oct 02. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 536/25.3; 435/6 435/91.1 435/91.2 536/23.1 536/25.32. C12Q001/68 C12P019/34 C07H019/00 C07H021/00 C07H012/02.

7. [6440705](#). 10 Sep 99; 27 Aug 02. Method for analyzing polynucleotides. Stanton, Jr.; Vincent P., et al. 435/91.2; 435/183 435/6 435/91.1 536/22.1 536/23.1 536/24.3 536/24.31 536/24.32 536/24.33. C12P019/34 C12Q001/68 C07H021/02 C07H021/04.

8. [6339066](#). 31 Mar 97; 15 Jan 02. Antisense oligonucleotides which have phosphorothioate linkages of high chiral purity and which modulate .beta.I, .beta.II, .gamma., .delta., .EPSILON., .zeta. and .eta. isoforms of human protein kinase C. Bennett; C. Frank, et al. 514/44; 435/366 435/375 435/6 435/91.1 536/23.1 536/24.31 536/24.5. C07H021/04 A61K048/00 C12Q001/68.

9. [6130038](#). 15 Jul 97; 10 Oct 00. Method for amplifying target nucleic acids using modified primers. Becker; Michael M., et al. 435/6; 536/23.1 536/24.3 536/24.31 536/24.32 536/24.33 536/25.32. C12Q001/68 C07H021/04.

10. [5939292](#). 05 Aug 97; 17 Aug 99. Thermostable DNA polymerases having reduced discrimination against ribo-NTPs. Gelfand; David Harrow, et al. 435/91.2; 435/194 536/23.2. C12P019/34 C12N009/12 C07H021/04.

10083233

=> s' fluoro-nucleotide# or amino-nucleotide# or arabinose nucleotide#  
L11 91 FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR ARABINOSE NUCLEOTIDE#

=> s 111 and modif### and primer#  
L12 1 L11 AND MODIF### AND PRIMER#

=> d 112 bib ab kwic

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:331867 CAPLUS  
DN 136:351360  
TI Nucleic acid amplification using **primers** comprising  
modified nucleotides  
IN Laird, Walter J.; Niemiec, John T.  
PA Roche Diagnostics G.m.b.H., Germany; F. Hoffmann-La Roche A.-G.  
SO Eur. Pat. Appl., 22 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1201768	A2	20020502	EP 2001-125022	20011020
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002291490	A2	20021008	JP 2001-326463	20011024
	US 2003044817	A1	20030306	US 2001-83233	20011024

PRAI US 2000-243182P P 20001025

AB The present invention provides **modified primers** for  
use in the amplification of a nucleic acid sequence. Amplifications  
carried out using the **modified primers** result in less  
template-independent non-specific product (**primer dimer**)  
compared to amplifications carried out using unmodified **primers**.  
The said **modified primers** comprise 2'-O-Me  
nucleotides, 2'-fluoro nucleotides, 2'-amino  
nucleotides or arabinose nucleotides with the  
three 3'-terminal nucleotide positions.

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ST nucleic acid amplification **primer modified** nucleotide

IT Nucleotides, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(2'-O-Me; nucleic acid amplification using **primers** comprising  
modified nucleotides)

IT Nucleotides, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(2'-deoxy-2'-amino; nucleic acid amplification using **primers**  
comprising modified nucleotides)

IT Nucleotides, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(2'-deoxy-2'-fluoro; nucleic acid amplification using **primers**  
comprising modified nucleotides)

IT Nucleotides, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(arabinose-contg.; nucleic acid amplification using **primers**

comprising **modified** nucleotides)

IT Nucleic acid amplification (method)  
PCR (polymerase chain reaction)  
(nucleic acid amplification using **primers** comprising  
**modified** nucleotides)

IT **Primers** (nucleic acid)  
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
(nucleic acid amplification using **primers** comprising  
**modified** nucleotides)

IT 147-81-9, Arabinose  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(contg. nucleotides; nucleic acid amplification using **primers**  
comprising **modified** nucleotides)

IT 420281-56-7 420281-57-8 420281-58-9 420281-59-0  
RL: PRP (Properties)  
(unclaimed nucleotide sequence; nucleic acid amplification using  
**primers** comprising **modified** nucleotides)

=>



UNMATCHED LEFT PARENTHESIS 'AND ((O-METHYL'  
- The number of right parentheses in a query must be equal to the  
number of left parentheses.

=> s 12 and (O-METHYL NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCLEOTIDE# OR  
ARABINOSE NUCLEOTIDE#)  
155455 "O"  
179333 "METHYL"  
205557 NUCLEOTIDE#  
10 O-METHYL NUCLEOTIDE#  
("O" (W) "METHYL" (W) NUCLEOTIDE#)  
12255 "FLUORO"  
205557 NUCLEOTIDE#  
2 FLUORO-NUCLEOTIDE#  
("FLUORO" (W) NUCLEOTIDE#)  
360356 "AMINO"  
205557 NUCLEOTIDE#  
3 AMINO-NUCLEOTIDE#  
("AMINO" (W) NUCLEOTIDE#)  
2435 "ARABINOSE"  
205557 NUCLEOTIDE#  
1 ARABINOSE NUCLEOTIDE#  
("ARABINOSE" (W) NUCLEOTIDE#)  
L3 0 L2 AND (O-METHYL NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCL  
EOTIDE# OR ARABINOSE NUCLEOTIDE#)

=> file medline caplus biosis embase  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
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15.08 16.93

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=> s modif#### (10a) primer#  
L4 2789 MODIF#### (10A) PRIMER#

=> s 14 and (O-methyl-nucleotide# or fluoro-nucleotide# or amino-nucleotide# or  
arabinose nucleotide#)  
L5 1 L4 AND (O-METHYL-NUCLEOTIDE# OR FLUORO-NUCLEOTIDE# OR AMINO-NUCL  
EOTIDE# OR ARABINOSE NUCLEOTIDE#)

=> s 15 and (end or termin####)  
L6 1 L5 AND (END\_OR\_TERMIN####)

=> d 16 bib ab kwic

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:331867 CAPLUS  
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IT 420281-56-7 420281-57-8 420281-58-9 420281-59-0

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